

# EXPERT PATIENTS AND THE NEW HEALTHCARE PARADIGM

*Informed consumers and expert patients are challenging the existing industry and government power blocs by taking control of their own health and demanding access to proven natural foods and products.*

by Kathryn Alexander, DThD  
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PO Box 259  
Maleny Qld 4552, Australia

Email: [kathryn@getalife.net.au](mailto:kathryn@getalife.net.au)

Website:

<http://www.dietaryhealing.com>

A rapid escalation of the ongoing global power struggle in the US\$3 trillion worldwide health sector<sup>1</sup> is challenging the status quo between global pharmcos, pharmacy industries and guilds and the all-powerful fiefdoms of clinicians, government agencies, politicians and the health insurance industry.

This perfect storm is due to a unique combination of interconnecting drivers that collectively offer the winner in this high-stakes game to take all. This would be achieved by acquiring control of the supply and price of all medications and complementary products as well as control of the knowledge of what actually works for each and every patient according to their own genetic profile.

This contest of strength is showing all the characteristics of a dirty war, as all sides start to realise the ramifications of winning and ramp up their efforts to grab the high ground as well as the knowledge asset acquired via the new electronic health records (EHR) system by harvesting information from the data provided by the support services associated with it.

The primary driver for this power shift is the inability of Western governments to meet the direct costs of escalating health bills due to a modern-day explosion of non-contagious epidemics, with the associated rising costs of products and services plus the indirect costs to the economy due to loss of income from decreased productivity (days off work) and future income lost by premature death. For example, obesity (and its related conditions, diabetes, heart disease and stroke) contributes US\$93 billion to America's yearly medical bill,<sup>2</sup> while in Britain the financial impact of obesity is estimated to reach £45.5 billion per year by 2050.<sup>3</sup>

When the indirect costs of welfare and income tax reduction are factored into the equation, along with the projected costs of meeting the needs of a rapidly increasing ageing population (the over 65s are set to comprise 20 per cent of the population in the USA by 2030), it becomes apparent that all Western governments, whether welfare or private healthcare oriented, will need to implement dramatic cost-saving strategies if they are to survive the projected rate of increase in chronic disease and stay abreast of the next wave in "predictive and preventive medicine"—the new designer drugs tailored for genetically distinct groups that will tackle disease before you get it, ripening the market for long-term drug dependency.

## NAVIGATING THE THIRD HEALTHCARE REVOLUTION

According to Sir Muir Gray, Director of Clinical Knowledge at the UK's National Health Service (NHS), we're moving into a third healthcare revolution which will be knowledge based, where the "knowledge [of what works] is the enemy of disease".<sup>4</sup> The first revolution was the discovery that dirty water produces disease; the second revolution was the discovery that chemicals could influence the course of disease; and this third revolution will be driven by the newfound ability to know which of today's medications and procedures actually work for each and every individual and, more importantly, which emerging medical breakthroughs could work. Governments and insurers will take the lead of Sir Muir Gray, who says that "the application of the knowledge we already possess will have a bigger impact on health and disease than any drug or technology likely to be introduced in the next decade".<sup>5</sup>

In a bid to control this knowledge, governments, insurance companies, clinicians and pharmaceutical companies are building their own electronic health databases to plug into everyone's medical records (and eventually every genome) in order to harvest the knowledge of which clinical procedures deliver the best outcomes, of the risks and benefits of drugs within given populations, of environmental factors and geographic variations in disease and,

most importantly, to tap into the cost-saving benefits or revenue-generating capacity that this knowledge will bring.

The capacity to enter information into a database in real time has far-reaching implications for all involved. The sharing of data across multiple parties, including general practitioners, specialists, clinics, hospitals and support services (pathology, radiology), not only provides the clinician with all the information relating to the medical events of the patient, but means that the benefits and risks of any new drug, product or procedure can be realised in a comparatively short time. This will release those that pay and those that prescribe from the bondage of the pharcos and manufacturers of new technology and enable more cost-effective treatments that achieve better outcomes for patients. The UK government's expected cost of running the NHS's new IT systems could cost £40 billion by 2014, a huge increase on the budgeted cost in 2002 of £6.2 billion.<sup>6</sup> Where are the tangible benefits for patients?

To date, most of these repository projects have run into problems due to the resistance of clinicians, who traditionally collect and effectively "own" patient information, to enter this data and share it with the owners of the new repository systems or, in many cases, even with the patients themselves. However, governments are not hindered in the funding of these systems because without access to this type of knowledge they have nothing with which to combat the spiralling healthcare costs.

The insurance industry is also taking a keen interest in accessing the knowledge from these harvested repositories. In the USA, the health insurer Kaiser Permanente, which has 8.7 million members, employs over 13,700 physicians and runs more than 30 medical centres,<sup>7</sup> has already established its own repository and through the harvesting of data can now offer treatment to members whose data indicate that they may be heading towards an adverse event, such as a heart attack, so producing large savings for the organisation.

With the pharmaceutical corporations taking a keen interest in acquiring the knowledge harvested from these massive data repositories, the battle for control is also touching on a range of issues regarding ownership of individual and collective data.

Each country seems to be tackling the issue of identity verification along similar lines, using national ID cards and welfare or tax numbers, or arguing for a national ID card or exchanges that can link together multiple existing ID systems for health and welfare. Much confusion exists around ownership and privacy, where most governments and corporations seem to use privacy legislation as a reason *not* to provide information to citizens.

In order to avoid this tricky issue of ownership, a common approach is to allow personal information within a health record (including the DNA profile) to be sold without permission, as long as the person's name is not included. This "de-identified" rationale falls down on two points: first, it is possible to reconstruct identities from these databases using new probability software; and second, current practices allow de-identified information to be sold by a third party, without the owner's permission, to multinational insurance companies, which in effect challenges the whole principle of ownership and legalises theft by corporate bodies.

Unless ownership of individual data and the range of issues

surrounding the rights of access and use of aggregated data can be established for the citizen and the common good, then the likely default position will be a few powerful multinationals controlling the knowledge in collaboration with governments.

In order to put the endpoint of this power game into context, it's necessary to recognise not only the US\$3 trillion industry that's up for grabs but also the value of this new knowledge-based commercial asset. Although no reliable figures for this knowledge asset have been published to date, it's easy to estimate what the asset value and thus the share value would be if a small group of multinationals controlled the very heart of this knowledge-based revolution.

This asset would contain the medical records (including DNA profiles) of the majority of individuals within the Western world and, in particular, information on those individuals who have the ability to pay for extended treatment and can access the appropriate insurance.

The real asset value increases dramatically as it becomes possible, then, to match these findings with emerging genomic products. This provides the owners of this information with the ability to offer personalised treatment for the existing chronically ill population of the Western world as well as for the targeted market referred to as the "worried well" that would effectively become drug-dependent for the rest of their lives in the belief that they were taking preventive medicine.

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#### **POWER BLOC DYNAMICS**

To gain an understanding of these forces and to work out the implications of what happens if any particular party wins the high ground, we need to analyse the politics of power. Only then do the tactics and strategies of the dirty war become apparent and the darker implications for us all become blatantly obvious.

The three blocs currently vying for power are those that control the manufacturing and dispensing of drug-related products, those that are

authorised to diagnose and prescribe product-based treatments, and those that pay—which, in most Western countries, tends to be governments and/or insurance companies rather than consumers.

The emerging fourth force comprises the communities of common interest whose concern is to obtain knowledge of what actually clinically works for them in their specific condition. As these ecogroups aggregate, they will gain the consumer power to counter the pharmaceutical industries, accrue the knowledge to challenge the diagnostic powers of healthcare providers and exert political power to dictate policy change or even to remove governments.

Most commentators are aware of the general dynamics between the three power blocs, but few have factored in the destabilising fourth power. Aside from any obvious outcomes of a power shift, such as a rise in prescription costs and insurance or a tightening of restrictions on the products we buy or the services we are granted access to, very little is said about the true ramifications for us, and even less thought is given to the emerging, not-so-passive, fourth power. Let's examine the potential for each group.

#### **Manufacturers and dispensers**

The stated goal of these manufacturing/dispensing players is absolute control of product supply and, if possible, the extended use of drug products for all, including the chronically ill (33 per cent of

Western populations<sup>8</sup>) and the "worried well". The most disturbing aspect is that a strategy of dependency usually ends up as being multi-product-based—often with pills being prescribed to counter the effects of the original treatment.

All's fair in a corporate-oriented world, some may say, where the share value is king, but a "sickness" industry singularly profits from increased drug-dependency and by targeting large markets with blockbuster drugs that generate 40–45 per cent of its revenue. Traditionally, pharmcos ignore any innovative research into drugs that prevent, treat or cure, and instead plough funds into a small range of blockbuster drugs which can generate revenues of over US\$20 billion during the life-spans of their patents.<sup>9</sup>

As the bubble bursts, the pharmcos are finally acknowledging that beneficial outcomes are limited to only 33 per cent of patients and that up to 50 per cent may not respond. They focus the blame for this failure on the variations in genetic make-up of individuals, where, for example, some people may metabolise a drug before it has time to act. However, the *real* cause of failure is that the clinical trials, funded by the drug companies themselves, use only carefully selected individuals who do not reflect the population for whom these drugs are aimed—people such as those suffering from one or more chronic degenerative diseases, or the elderly. In addition, the studies may inaccurately reflect the true results of findings due to the vested interests of the authors or a failure to report negative findings.<sup>10</sup>

Because scientific proof of effectiveness and safety in the broad community is not required for drug approval, the testing only truly begins when the drugs enter the marketplace and are foisted onto a trusting public. With a meaningless real-time reporting regime for adverse reactions, which provides absolutely no contribution to any evidence-based research that can be accessed by other clinicians, the consequence is that adverse reactions have time to reap many casualties, as was seen in the cases of Thalidomide and Vioxx.

Also under the spotlight is the effectiveness of older generic drugs, whose patents have expired, against newer drugs. Approval for a new drug is dependent upon achieving superior results compared with the drug it is replacing or improved clinical outcomes when added to an accepted protocol. Pressure to replenish revenue streams with new patents as the old patents expire has led to inflated claims, and with no requirement to test the added value of a drug in a real-life setting it is difficult to prove these claims.

However, in 2002 when ALLHAT (Antihypertensive and Lipid Lowering treatment to prevent Heart Attack Trial) published its findings from a five-year trial involving 30,000 patients, no difference was found in the clinical outcomes between using cheaper diuretics (thiazides) over the more expensive angiotensin-converting enzyme inhibitors (ACEIs) and calcium-channel blockers (CCBs). There was no change in mortality, but a greater incidence in adverse events was seen with the ACEIs and increased occurrence of heart failure with the CCBs, while the thiazides reduced the incidence of stroke and had better effects on lowering blood pressure. In spite of the negatives for the thiazides,

such as reduced potassium and increased glucose and cholesterol levels, these did not lead to any difference in clinical outcomes and the thiazides appeared to provide modestly improved outcomes for most. As with most generic drugs, the cost of the thiazides was cheaper at only US\$0.05 to \$0.30 daily, while the cost of the other medications ranged from \$1.15 to \$1.50 daily.<sup>11</sup>

Although future negotiations between healthcare payers and the pharmcos will likely be based on clinical outcomes, the pharmcos are looking to the emerging market of "predictive and preventive" medicine—the industry's definition of the "wellness industry"—where they will be able to predict predisposition through genetic screening and then prevent the disease with drugs before we become sick (this will also include mandatory vaccination programs).<sup>12</sup> Steve Burrill, of biotechnology company Burrill & Company, predicts that everyone's genome and medical records will eventually be plugged into the system and that "[i]n the future, babies could be given a smart card when they are born and we'll add to that as they go through life".<sup>13</sup>

With new technology that can decode the human genome and identify the key signalling molecules (targets) linked with disease, and with the capacity to make, test and screen thousands of new chemical compounds day in, day out, by building a library of millions of chemicals, it will be possible to match a drug with each new target as it is identified. By linking genetic variance to drug response, scientists will be able to determine which drugs will work best with each genetically distinct group. Peter Goodfellow, of the pharmco GlaxoSmithKline, says: "We'd like

to create a drug for every target in the human genome, so you could start with drugs, not the target."<sup>14</sup>

However, supporting a strategy in the absence of research into the full implications of altering gene expression, which leads us down the route of greater drug-dependency, is hardly intelligent, particularly as the World Health Organization has stated that 80 per cent of heart attacks, strokes and diabetes and 40 per cent of cancers are preventable and that it is cheaper to prevent disease among healthy populations than to treat sick populations. Currently, only three

per cent of healthcare spending is used in prevention.<sup>15</sup>

Global pharmcos are also looking to capture the lucrative alternative health industry to annihilate competition and control product supply and consumer choice. Dirty tactics have so far involved government regulatory bodies and the Codex Alimentarius Commission, an international organisation that sets international standards and codes for foods, establishes upper limits for over-the-counter vitamin and mineral supplement dosages, and reclassifies all products that have therapeutic action as medicines to be regulated under various drugs acts.

The next stage involves the patenting of new products based on natural products. Natural products cannot be patented, but what *can* be patented are the bio-active compounds of natural products, isolated, synthesised and replicated in the laboratory, as well as the technology itself. Hence we see the emergence of pharmaceutical versions of herbs (PharmaPrinting), nutritional products (Nutraceuticals) and functional foods based on a person's

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genetic make-up (Nutrigenomics). For investors to invest, market exclusivity must be assured. We are already witnessing the banning of natural health products under the guise of consumer protection, and there are indications that we are heading towards a situation where it will be illegal to grow herbs in your own backyard on the basis that they are dangerous. The endpoint for the pharmcos is to capture all the indigenous markets which have used traditional herbs for centuries (Chinese, Indian Ayurvedic, South American, African, etc.), and convert them to patented products that can pass the testing, standardisation and scientific proof required by all drugs.<sup>16</sup>

### Clinicians and prescribers

Often referred to as "the priesthood", this highly fragmented group of clinicians and prescribers seeks to control the ownership of the relationship with the patient, the prescribing of drugs, the procedures used and the acquired knowledge of their application. Their collective stance of non-collaboration (although not shared by all clinicians) in government health initiatives to establish EHRs not only reflects this desire to control the ownership or copyright of patient records but also an unwillingness to be accountable for decisions made on behalf of patients. EHRs will enable the auditing of all decisions and the tracing of major mistakes in general practice and hospital management.

An additional pressure will come from patients who will expect to have access to, or be advised on, the latest clinical evidence when making choices about treatment. Sir Muir Gray states that whereas "the clinician was the driving force in the 20th century, the patient will be the driving force in the 21st century".<sup>17</sup>

At this turning point, clinicians can either submit and become glorified pill-dispensers (as described by the then British prime minister, Mrs Thatcher) or they can take up the challenge and use what's left of their credibility and trust to help patients as advocates and assist them in harvesting the knowledge of what works. As attitudes to the profession change, the intimidating paternalistic stance that was once its hallmark will no longer be acceptable as patients demand the respect they deserve when making critical health decisions.

### Governments and insurers

With health insurance costs set to rise by 6.5 per cent annually (an estimated US\$1.00 of every US\$5.00 spent in the USA is on healthcare), with statistics indicating that more people in the USA per annum are dying from medical errors (approx. 195,000 in 2000–2002<sup>18</sup>) than from breast cancer, AIDS or motor vehicle accidents,<sup>19</sup> and with the predicted rise in chronic disease set to affect 50 per cent of populations in developed countries,<sup>20</sup> governments and insurance companies are looking to drive down their costs, increase their profits and get better patient outcomes.

Reducing costs means extricating the industry from the stranglehold of those that control prescribing—the pharmcos and the clinicians. A rapid deviation from the scientifically based model of healthcare to one that is clinically based will demote the "scientific evidence" mantra that has governed healthcare policy in favour of what actually works, whether scientifically proven or not. With the EHR initiative, governments and insurers will be able to accelerate the diffusion of clinical research information to

sponsors, researchers, regulatory bodies and the medical community at large, systemise healthcare by defining and controlling procedures including the rules on what can be prescribed for any condition, and control what products can be used accordingly. They will then be able to aggregate the demand and negotiate cheaper prices from pharmcos.

The UK government has tapped into the frequent-flyer market of patients with chronic conditions who make the most visits to GPs and hospitals. The Expert Patient Programme,<sup>21</sup> an NHS health initiative where a certificate of competence is issued after a six-week course of 2.5 hours per week, simply replicates the self-management advice that self-help and support groups have been offering for decades. However, the NHS, through the formalisation and adoption of the program (20,000 people have already taken part), has been able to indicate measurable improvements in quality of life and cost-savings for the health budget. Tangible results have been demonstrated in reductions of 44–80 per cent in visits to GPs and other health professionals by various groups, and in a 31 per cent reduction in hospitalisation for asthma sufferers.<sup>22</sup>

### Expert health consumers and patients

Although there are short-term benefits in shifting the management of chronic conditions back to the consumer, the long-term implications of endorsing groups of highly motivated people have not been factored into the health equation.

Under the government and pharmco model, the "expert patient" is drug-compliant and therefore more cost-effective and profitable. However, virtual community groups in increasing numbers are communicating their views and their own knowledge of what works for them over the Internet, and with the availability of the new, free, open-source software and tools, these groups will be able to gather, store, harvest and share knowledge themselves and become better informed and more responsible for their health—a threat to the system,

indeed. With the new emphasis on clinical outcome as opposed to scientific evidence, comparative studies of mainstream and complementary medicine may be published and present new challenges to conventional healthcare.

The driver for this wave in consumer power is the cost of treatment, the reduction in disposable income, the loss of confidence and trust in the medical industry and, more importantly, the realisation that public health is spiralling downwards and that not a cent is being spent on addressing the causes. These well-informed people do not want to be drug-dependent or see their children suffering chronic conditions. They want to own the right to be healthy, and they will meet with fierce, co-ordinated opposition any move by governments or pharmcos to inhibit access to natural foods and health products or therapies that have proven benefits. Likewise, they will fight strongly for the power to deny consent to any group—government, pharmco or clinician—or even any IT company such as Microsoft and Google which stores health records to datamine or de-identify those records for on-selling to corporations that seek to control and influence the market.

With a growing consensus that failure to address the key causes of our decline—environmental pollution and nutritional depletion—will

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Continued on page 77

Continued from page 24

drive us deeper into a cul-de-sac, this fourth power, expert health consumers, will succeed in destabilising the current balance of power. When the core message from the three power blocs—"We think we can help you manage and take responsibility for your condition that we created and, if we're able, have you pay for it"—finally dawns on the majority, then the move towards truly preventive medicine, to managing your own health before you become sick, will become the new mantra.

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### About the Author:

Kathryn Alexander, DThD, is an internationally acknowledged author and expert in the field of detoxification and dietary healing, having lectured widely in the UK, USA and Australia. She served on the Board of Directors of the Gerson Institute and produced its practitioner training manual. Following the success of her current publication *Dietary Healing: The Complete Detox Program* (see review this edition), she will be publishing her expert patient series to help those with chronic disease take control of their journey, navigate the medical system and choose treatment options that will deliver them the best outcomes.

Kathryn Alexander can be contacted by post at PO Box 259, Maleny Qld 4552, Australia, by email at [kathryn@getalife.net.au](mailto:kathryn@getalife.net.au), and also via her website <http://www.dietaryhealing.com>.